

Amendments to the Specification:

Please replace paragraph [0013] as filed with the following paragraph in which an equation number is added

"[0013] According to an aspect of the invention, the step of determining the fault resistance R_{fault} is performed by

$$R_{\text{fault}} = \frac{V_{\text{link2}} - V_{\text{link1}}}{2(I_{g_{f1}} - I_{g_{f2}})} - \frac{R_g}{2} \quad (1)$$

where:

V_{link1} is the voltage at the load at the first time;

V_{link2} is the voltage at the load at the second time;

$I_{g_{f1}}$ is the current in the measurement path at the first time;

$I_{g_{f2}}$ is the current in the measurement path at the second time; and

R_g is the equivalent resistance."